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NEWS 1   Web Page URLs for STN Seminar Schedule - N. America
NEWS 2   "Ask CAS" for self-help around the clock
NEWS 3   SEP 09   CA/CAplus records now contain indexing from 1907 to the
                     present
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NEWS 6   OCT 10   PCTFULL: Two new display fields added
NEWS 7   OCT 21   BIOSIS file reloaded and enhanced
NEWS 8   OCT 28   BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9   NOV 24   MSDS-CCOHS file reloaded
NEWS 10   DEC 08   CABA reloaded with left truncation
NEWS 11   DEC 08   IMS file names changed
NEWS 12   DEC 09   Experimental property data collected by CAS now available
                     in REGISTRY
NEWS 13   DEC 09   STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS 14   DEC 17   DGENE: Two new display fields added
NEWS 15   DEC 18   BIOTECHNO no longer updated
NEWS 16   DEC 19   CROPU no longer updated; subscriber discount no longer
                     available
NEWS 17   DEC 22   Additional INPI reactions and pre-1907 documents added to CAS
                     databases
NEWS 18   DEC 22   IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19   DEC 22   ABI-INFORM now available on STN
NEWS 20   JAN 27   Source of Registration (SR) information in REGISTRY updated
                     and searchable
NEWS 21   JAN 27   A new search aid, the Company Name Thesaurus, available in
                     CA/CAplus
NEWS 22   FEB 05   German (DE) application and patent publication number format
                     changes
NEWS 23   MAR 03   MEDLINE and LMEDLINE reloaded
NEWS 24   MAR 03   MEDLINE file segment of TOXCENTER reloaded
NEWS 25   MAR 03   FRANCEPAT now available on STN

NEWS EXPRESS   MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
                MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
                AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS   STN Operating Hours Plus Help Desk Availability
NEWS INTER   General Internet Information
NEWS LOGIN   Welcome Banner and News Items
NEWS PHONE   Direct Dial and Telecommunication Network Access to STN
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Enter NEWS followed by the item number or name to see news on that
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10613988

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* * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:28:20 ON 24 MAR 2004

=> file registry

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 16:28:28 ON 24 MAR 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 23 MAR 2004 HIGHEST RN 666817-09-0
DICTIONARY FILE UPDATES: 23 MAR 2004 HIGHEST RN 666817-09-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

   Please note that search-term pricing does apply when
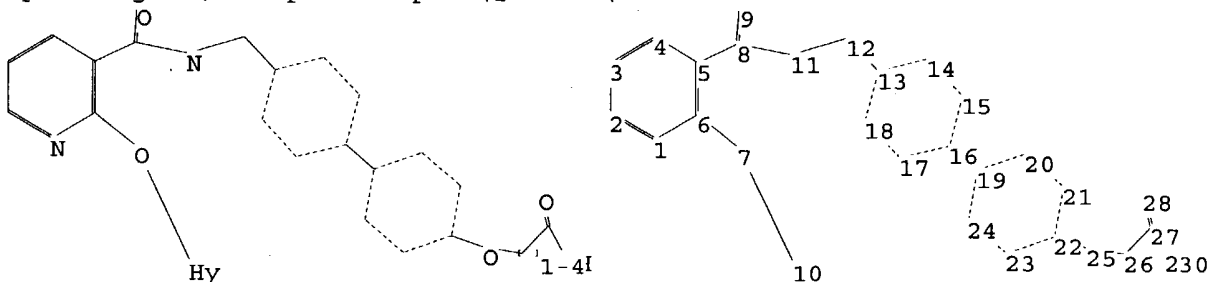   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10613988.str

chain nodes :
7   8   9   10   11   12   25   26   27   28   29   30
ring nodes :
1   2   3   4   5   6   13   14   15   16   17   18   19   20   21   22   23   24

chain bonds :
5-8   6-7   7-10   8-9   8-11   11-12   12-13   16-19   22-25   25-26   26-27   27-28   27-29
29-30
ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   13-14   13-18   14-15   15-16   16-17   17-18   19-20
19-24   20-21   21-22   22-23   23-24
exact/norm bonds :
6-7   7-10   8-9   8-11   11-12   13-14   13-18   14-15   15-16   16-17   17-18   19-20   19-24
 20-21   21-22   22-23   22-25   23-24   25-26
exact bonds :
5-8   12-13   16-19   26-27   29-30
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6   27-28   27-29
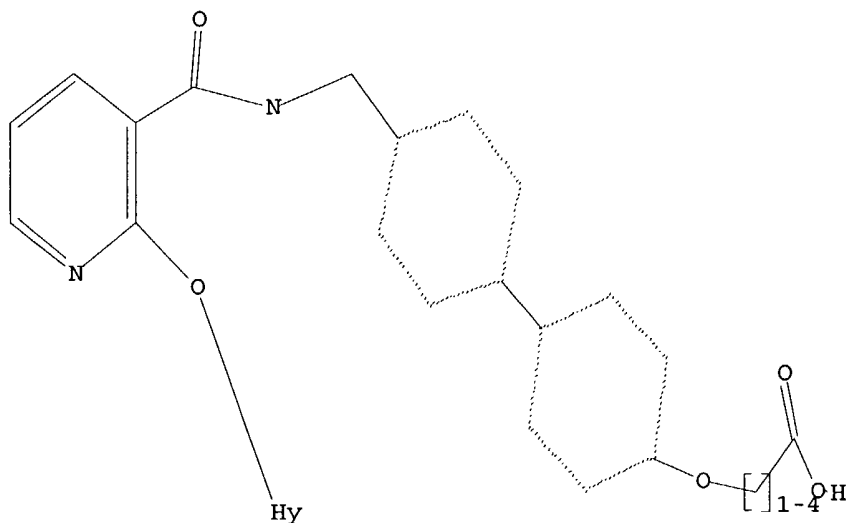

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   8:CLASS   9:CLASS   10:Atom
11:CLASS   12:CLASS   13:Atom   14:Atom   15:Atom   16:Atom   17:Atom   18:Atom   19:Atom
20:Atom   21:Atom   22:Atom   23:Atom   24:Atom   25:CLASS   26:CLASS   27:CLASS   28:CLASS
 29:CLASS   30:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

Structure attributes must be viewed using STN Express query preparation.

=> sl1 ful
SL1 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

3/24/2004

=> s l1 ful
FULL SEARCH INITIATED 16:29:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   15 TO ITERATE

100.0% PROCESSED   15 ITERATIONS   6 ANSWERS
SEARCH TIME: 00.00.01

L2   6 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                            ENTRY   SESSION
FULL ESTIMATED COST   155.42   155.63

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FILE COVERS 1907 - 24 Mar 2004 VOL 140 ISS 13
FILE LAST UPDATED: 23 Mar 2004 (20040323/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s l2
L3   1 L2

=> d abs bib hitstr

10613988

L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB   The title compds. [I; g = 0-1; j = 0-1; provided that when j = 0, n must
      be 2; k = 0-1; m = 0-2; n = 1-2; W1 = 0, SOt (t = 0-2), NR3; W2 =
OCR9R10,
      or absent; Y = CR1, NOk (k = 0-1); R9, R10 = H, F, CF3, etc.; or R9 and
      R10 are taken together, but only in the case where m = 1, to form a spiro
      moiety; R7, R8 have the same meaning as R9, R10 except that one of them
      must be H; R1, R2 = H, F, Cl, etc.; R3 = H, alkyl, Ph, etc.; R4-R6 = H,
F,
      Cl, etc.; Q1 = Ph, benzodioxyl, etc.; Q2 = biaryl moiety], useful as
      inhibitors of PDE4 in the treatment of diseases regulated by the
      activation and degranulation of eosinophils, especially asthma, chronic
      bronchitis, and chronic obstructive pulmonary disease, were prepared
E.g.,
      a multi-step synthesis of the amide II, starting from Me 3-bromobenzoate
      and 4-formylbenzeneboronic acid, was given. Compds. I showed
      anti-inflammatory activity at 0.0001 μM to 20.0 μM in whole blood
      assay for LTE4.
AN   2002:594822 CAPLUS
DN   137:154857
TI   Preparation of nicotinamide biaryl derivatives as inhibitors of PDE4
      isozymes
IN   Chambers, Robert James; Magee, Thomas Victor; Marfat, Anthony
PA   Pfizer Products Inc., USA
SO   PCT Int. Appl., 224 pp.
      CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
      PATENT NO.   KIND DATE   APPLICATION NO.   DATE
      --------------   ---- -------- ---------------   --------
PI   WO 2002060875   A1   20020808   WO 2001-IB2341 20011206
      WO 2002060875   C1   20030731
          W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
              CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
              GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
              LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
              PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
              UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
          RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
              CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
              BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
      EP 1355884   A1   20031029   EP 2001-273556 20011206
          R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
      EE 200300360   A   20031215   EE 2003-360   20011206
      BR 2001016852   A   20040225   BR 2001-16852   20011206
      US 2002193612   A1   20021219   US 2002-62813   20020131
      US 6649633   B2   20031118

L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN   (Continued)
          US 2004048903   A1   20040311   US 2003-613988 20030702
          NO 2003003397   A   20030919   NO 2003-3397   20030730
PRAI US 2001-265492P   P   20010131
          WO 2001-IB2341 W   20011206
          US 2002-62813   A3   20020131
OS   MARPAT 137:154857
IT   445492-73-9P 445492-74-0P 445492-75-1P
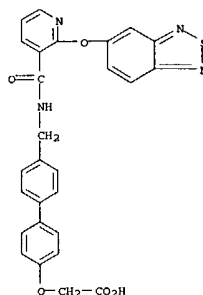   445492-76-2P 445492-93-3P 445492-94-4P
      RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
      (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
      (Uses)
      (preparation of biaryl nicotinamides as inhibitors of PDE4 isoenzymes)
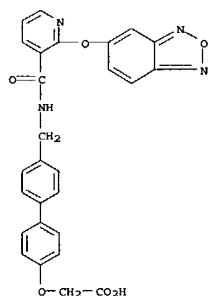RN   445492-73-9 CAPLUS
CN   Acetic acid, [[4'-[[[[2-(2,1,3-benzothiadiazol-5-yloxy)-3-
      pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
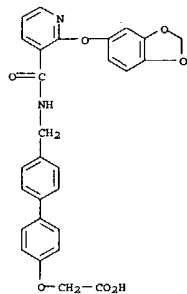   INDEX NAME)

RN   445492-74-0 CAPLUS
CN   Acetic acid, [[4'-[[[[2-(2,1,3-benzoxadiazol-5-yloxy)-3-
      pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
      INDEX NAME)

L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN   (Continued)
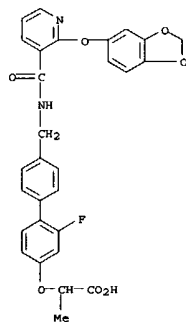

RN   445492-75-1 CAPLUS
CN   Acetic acid, [[4'-[[[[2-(1,3-benzodioxol-5-yloxy)-3-
      pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
      INDEX NAME)
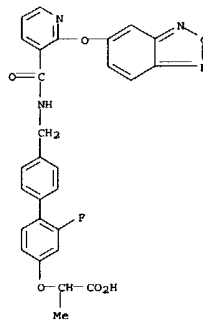

RN   445492-76-2 CAPLUS
CN   Propanoic acid, 2-[[4'-[[[[2-(1,3-benzodioxol-5-yloxy)-3-
      pyridinyl]carbonyl]amino]methyl]-2-fluoro[1,1'-biphenyl]-4-yl]oxy]- (9CI)
      (CA INDEX NAME)

L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN   (Continued)

RN   445492-93-3 CAPLUS
CN   Propanoic acid, 2-[[4'-[[[[2-(2,1,3-benzoxadiazol-5-yloxy)-3-
      pyridinyl]carbonyl]amino]methyl]-2-fluoro[1,1'-biphenyl]-4-yl]oxy]- (9CI)
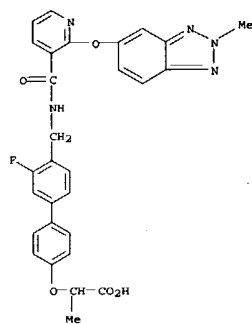   (CA INDEX NAME)

RN   445492-94-4 CAPLUS
CN   Propanoic acid, 2-[[3'-fluoro-4'-[[[2-[(2-methyl-2H-benzotriazol-5-
      yl)oxy]-3-pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]-
      (9CI)

3/24/2004

L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN   (Continued)
       (CA INDEX NAME)

RE.CNT 8   THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

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3/24/2004

```
=> file uspatall
COST IN U.S. DOLLARS                         SINCE FILE      TOTAL
                                                ENTRY       SESSION
FULL ESTIMATED COST                             6.51         162.14


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)   SINCE FILE      TOTAL
                                                ENTRY       SESSION
CA SUBSCRIBER PRICE                            -0.69         -0.69


FILE 'USPATFULL' ENTERED AT 16:31:30 ON 24 MAR 2004
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=> d his

     (FILE 'HOME' ENTERED AT 16:28:20 ON 24 MAR 2004)

     FILE 'REGISTRY' ENTERED AT 16:28:28 ON 24 MAR 2004
L1               STRUCTURE UPLOADED
L2         6 S L1 FUL

     FILE 'CAPLUS' ENTERED AT 16:29:10 ON 24 MAR 2004
L3         1 S L2

     FILE 'USPATFULL, USPAT2' ENTERED AT 16:31:30 ON 24 MAR 2004

=> s l2
L4         2 L2

=> d abs bib fhitstr 1-2
```

AB   Compounds useful as inhibitors of PDE4 in the treatment of diseases
        regulated by the activation and degranulation of eosinophils,
especially
            asthma, chronic bronchitis, and chronic obstructuive pulmonary disease,
            of the formula: ##STR1##

            where j is 0 or 1 provided that when j is 0, n must be 2; k is 0 or 1;
m
            is 0, 1, or 2; n is 1 or 2; W.sup.1 is --O--; or --S(.dbd.O).sub.t--,
            where t is 0, 1, or 2; or --N(R.sup.3)--; W.sup.2 is
            --O--CR.sup.AR.sup.B-- or is absent; Y is .dbd.C(R.sup.1.sub.a)-- or
            --[N(O).sub.k]-- where k is 0 or 1; R.sup.A and R.sup.B are --H; --F;
            --CF.sub.3; --(C.sub.1-C.sub.4) alkyl; --(C.sub.3-C.sub.7) cycloalkyl;
            phenyl; or benzyl substituted with 0 to 3 substituents R.sup.10; or
            R.sup.A and R.sup.B are taken together, but only in the case where m is
            1, to form a spiro moiety; R.sup.C and R.sup.D have the same meaning as
            R.sup.A and R.sup.B except that one of them must be --H, R.sup.1 and
            R.sup.2 are --H; --F; --Cl; --CN; --NO.sub.2; --(C.sub.1-C.sub.4)
alkyl;
            --(C.sub.2-C.sub.4) alkynyl; fluorinated --(C.sub.1-C.sub.3) alkyl;
            --OR.sup.16; and --C(.dbd.O)NR.sup.22.sub.aR.sup.22.sub.b; R.sup.3 is
            --H; --(C.sub.1-C.sub.3) alkyl; phenyl; benzyl; or --OR.sup.16;
R.sup.4,
            R.sup.5 and R.sup.6 in addition to other meanings may be taken together
            to form, e.g.,   ##STR2##

            Q.sup.1 is a saturated or unsaturated carbon ring system that is a 3-
to
            7-membered monocyclic, or that is a 7- to 12-membered, fused
polycyclic;
            provided that Q.sup.1 is not a discontinuous or restricted biaryl
moiety
            as defined under Q.sup.2; where optionally one carbon atom may be
            replaced by a heteroatom selected from N, O, and S; where optionally a
            second carbon atom thereof, and further optionally a third carbon atom
            thereof may be replaced by N; Q.sup.2 is a discontinuous or restricted
            biaryl moiety consisting of a saturated or unsaturated carbon ring
            system that is a 3- to 7-membered monocyclic, or that is a 7- to
            12-membered, fused polycyclic; where optionally one carbon atom may be
            replaced by a heteroatom selected from N, O, and S; where optionally a
            second carbon atom thereof, and further optionally a third carbon atom
            thereof may be replaced by N; Z is selected from: ##STR3##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN   2002:338241 USPATFULL
TI   Nicotinamide biaryl derivatives useful as inhibitors of PDE4 isozymes
IN   Chambers, Robert J., Mystic, CT, UNITED STATES
        Marfat, Anthony, Mystic, CT, UNITED STATES
        Magee, Thomas V., Mystic, CT, UNITED STATES
PA   Pfizer Inc. (U.S. corporation)
PI   US 2002193612   A1   20021219
        US 6649633   B2   20031118
AI   US 2002-62813   A1   20020131 (10)
PRAI   US 2001-265492P   20010131 (60)
DT   Utility

FS   APPLICATION
LREP   PFIZER INC, 150 EAST 42ND STREET, 5TH FLOOR - STOP 49, NEW YORK, NY,
        10017-5612
CLMN   Number of Claims: 18
ECL   Exemplary Claim: 1
DRWN   No Drawings
LN.CNT 7001
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT   445492-73-9P
            (preparation of biaryl nicotinamides as inhibitors of PDE4 isoenzymes)
RN   445492-73-9 USPATFULL
CN   Acetic acid, [[4'-[[[[2-(2,1,3-benzothiadiazol-5-yloxy)-3-
        pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
        INDEX NAME)

AB   This application is directed to compounds useful as inhibitors at PDE4
        in the treatment of diseases regulated by the activation and
        degranulation of eosinophils, especially asthma, chronic bronchitis and
        chronic obstructuive pulmonary disease, of the formula: ##STR1##

            where j is 0 or 1 provided that when j is 0, n must be 2; k is 0 or 1;
m
            is 0, 1, or 2; n is 1 or 2; W.sup.1 is --O--; or --S(.dbd.O).sub.t--,
            where t is 0, 1, or 2; Y is --C(R.sup.1.sub.a); Q.sup.1 is phenyl or
            substituted phenyl; Q.sup.2 is biphenyl or substituted biphenyl; and
the
            remaining variables are defined as set forth in the specification. This
            application is also directed to pharmaceutical compositions comprising
            those compounds and to methods of treating diseases regulated by the
            activation and degranulation of eosinophils, in particular asthma,
            chronic bronchitis and chronic obstructive pulmonary disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN   2002:338241 USPAT2
TI   Nicotinamide biaryl derivatives useful as inhibitors of PDE4 isozymes
IN   Chambers, Robert J., Mystic, CT, United States
        Marfat, Anthony, Mystic, CT, United States
        Magee, Thomas V., Mystic, CT, United States
PA   Pfizer Inc, New York, NY, United States (U.S. corporation)
PI   US 6649633   B2   20031118
AI   US 2002-62813   20020131 (10)
PRAI   US 2001-265492P   20010131 (60)
DT   Utility
FS   GRANTED
EXNAM   Primary Examiner: Desai, Rita
LREP   Richardson, Peter C., Benson, Gregg C., Ronau, Robert T.
CLMN   Number of Claims: 9
ECL   Exemplary Claim: 1
DRWN   0 Drawing Figure(s); 0 Drawing Page(s)
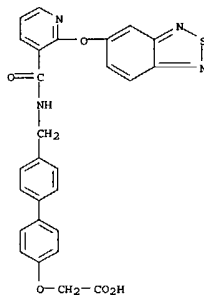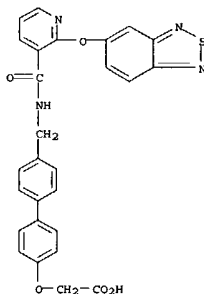LN.CNT 6480
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT   445492-73-9P
            (preparation of biaryl nicotinamides as inhibitors of PDE4 isoenzymes)
RN   445492-73-9 USPAT2
CN   Acetic acid, [[4'-[[[[2-(2,1,3-benzothiadiazol-5-yloxy)-3-
        pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
        INDEX NAME)

3/24/2004

```
=> logoff y
COST IN U.S. DOLLARS                            SINCE FILE        TOTAL
                                                   ENTRY        SESSION
FULL ESTIMATED COST                                13.62         175.76


DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE        TOTAL
                                                   ENTRY        SESSION
CA SUBSCRIBER PRICE                                 0.00          -0.69

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NEWS 8   OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS 9   NOV 24 MSDS-CCOHS file reloaded
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                  in REGISTRY
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NEWS 18   DEC 22 IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS 19   DEC 22 ABI-INFORM now available on STN
NEWS 20   JAN 27 Source of Registration (SR) information in REGISTRY updated
                  and searchable
NEWS 21   JAN 27 A new search aid, the Company Name Thesaurus, available in
                  CA/CAplus
NEWS 22   FEB 05 German (DE) application and patent publication number format
                  changes
NEWS 23   MAR 03 MEDLINE and LMEDLINE reloaded
NEWS 24   MAR 03 MEDLINE file segment of TOXCENTER reloaded
NEWS 25   MAR 03 FRANCEPAT now available on STN

NEWS EXPRESS   MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
              MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
              AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS   STN Operating Hours Plus Help Desk Availability
NEWS INTER   General Internet Information
NEWS LOGIN   Welcome Banner and News Items
NEWS PHONE   Direct Dial and Telecommunication Network Access to STN
NEWS WWW   CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

10613988

3/24/2004

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   * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:28:20 ON 24 MAR 2004

=> file registry
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 16:28:28 ON 24 MAR 2004
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STRUCTURE FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0
DICTIONARY FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0

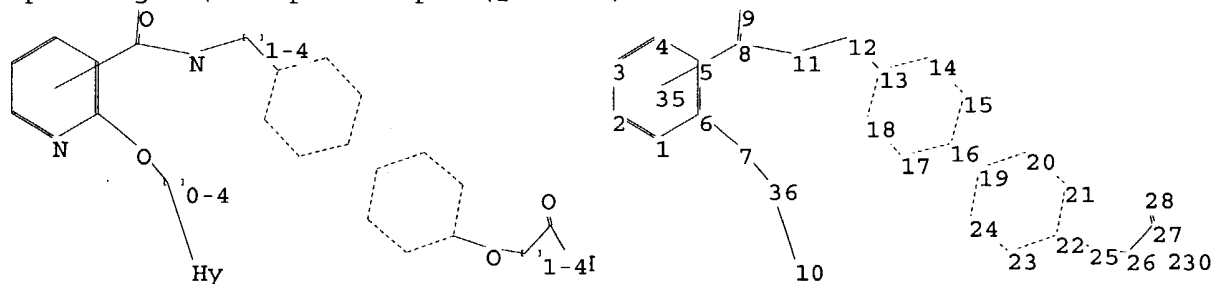TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10613988.str

chain nodes :
7 8 9 10 11 12 25 26 27 28 29 30 36
ring nodes :
1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 23 24

10613988

chain bonds :
6-7 7-36 8-11 8-9 10-36 11-12 12-13 22-25 25-26 26-27 27-28 27-29 29-30

ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 13-14 13-18 14-15 15-16 16-17 17-18 19-24
19-20 20-21 21-22 22-23 23-24
exact/norm bonds :
6-7 7-36 8-11 8-9 10-36 11-12 13-14 13-18 14-15 15-16 16-17 17-18 19-24
 19-20 20-21 21-22 22-23 22-25 23-24 25-26
exact bonds :
12-13 26-27 29-30
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 27-28 27-29

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:CLASS 27:CLASS 28:CLASS
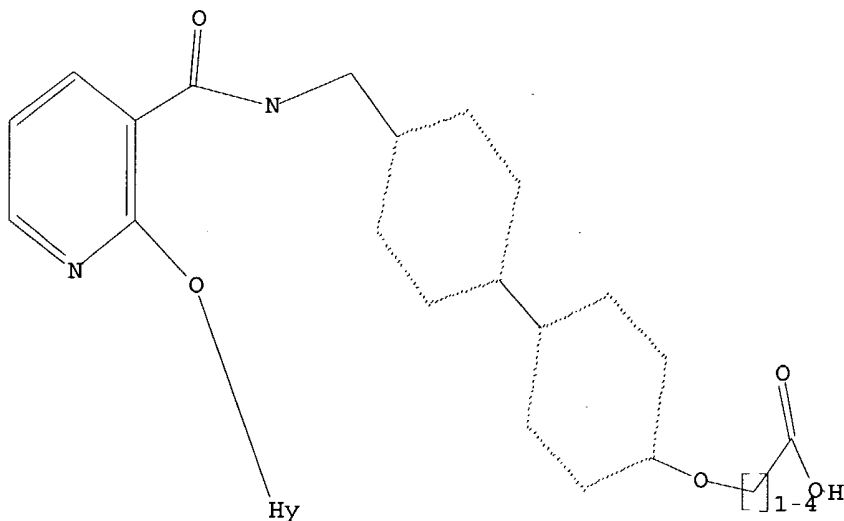 29:CLASS 30:CLASS 35:CLASS 36:CLASS

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR

Structure attributes must be viewed using STN Express query preparation.

=> sl1 ful
SL1 IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

10613988

3/24/2004

=> s l1 ful
FULL SEARCH INITIATED 16:29:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   15 TO ITERATE

100.0% PROCESSED   15 ITERATIONS   6 ANSWERS
SEARCH TIME: 00.00.01

L2   6 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                          ENTRY   SESSION
FULL ESTIMATED COST   155.42   155.63

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FILE COVERS 1907 - 24 Mar 2004 VOL 140 ISS 13
FILE LAST UPDATED: 23 Mar 2004   (20040323/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s l2
L3   1 L2

=> d abs bib hitstr

10613988

L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB   The title compds. [I; g = 0-1; j = 0-1; provided that when j = 0, n must
     be 2; k = 0-1; m = 0-2; n = 1-2; W1 = 0, SOt (t = 0-2), NR3; W2 =
OCR9R10,
     or absent; Y = CR1, NOk (k = 0-1); R9, R10 = H, F, CF3, etc.; or R9 and
     R10 are taken together, but only in the case where m = 1, to form a spiro
     moiety; R7, R8 have the same meaning as R9, R10 except that one of them
     must be H; R1, R2 = H, F, Cl, etc.; R3 = H, alkyl, Ph, etc.; R4-R6 = H,
F,
     Cl, etc.; Q1 = Ph, benzodioxyl, etc.; Q2 = biaryl moiety], useful as
     inhibitors of PDE4 in the treatment of diseases regulated by the
     activation and degranulation of eosinophils, especially asthma, chronic
     bronchitis, and chronic obstructive pulmonary disease, were prepared
E.g.,
     a multi-step synthesis of the amide II, starting from Me 3-bromobenzoate
     and 4-formylbenzeneboronic acid, was given. Compds. I showed
     anti-inflammatory activity at 0.0001 µM to 20.0 µM in whole blood
     assay for LTE4.
AN   2002:594822 CAPLUS
DN   137:154857
TI   Preparation of nicotinamide biaryl derivatives as inhibitors of PDE4
     isozymes
IN   Chambers, Robert James; Magee, Thomas Victor; Marfat, Anthony
PA   Pfizer Products Inc., USA
SO   PCT Int. Appl., 224 pp.
     CODEN: PIXXD2
DT   Patent
LA   English
FAN.CNT 1
        PATENT NO.   KIND DATE   APPLICATION NO.   DATE
        -----------   ---- --------   ---------------   --------
PI   WO 2002060875   A1   20020808   WO 2001-IB2341   20011206
     WO 2002060875   C1   20030731
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
             UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
             CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
     EP 1355884   A1   20031029   EP 2001-273556   20011206
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR
     EE 200300360   A   20031215   EE 2003-360   20011206
     BR 2001016852   A   20040225   BR 2001-16852   20011206
     US 2002193612   A1   20021219   US 2002-62813   20020131
     US 6649633   B2   20031118

L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN   (Continued)
        US 2004048903   A1   20040311   US 2003-613988   20030702
        NO 2003003397   A   20030919   NO 2003-3397   20030730
PRAI US 2001-265492P   P   20010131
     WO 2001-IB2341   W   20011206
     US 2002-62813   A3   20020131
OS   MARPAT 137:154857
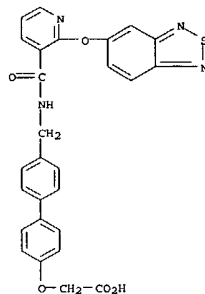IT   445492-73-9P 445492-74-0P 445492-75-1P
     445492-76-2P 445492-93-3P 445492-94-4P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
     (preparation of biaryl nicotinamides as inhibitors of PDE4 isoenzymes)
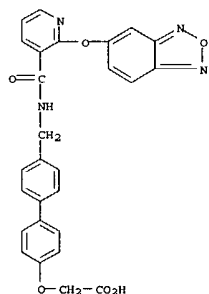RN   445492-73-9 CAPLUS
CN   Acetic acid, [[4'-[[[[2-(2,1,3-benzothiadiazol-5-yloxy)-3-
     pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
     INDEX NAME)

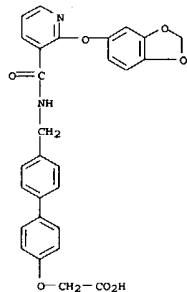RN   445492-74-0 CAPLUS
CN   Acetic acid, [[4'-[[[[2-(2,1,3-benzoxadiazol-5-yloxy)-3-
     pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
     INDEX NAME)

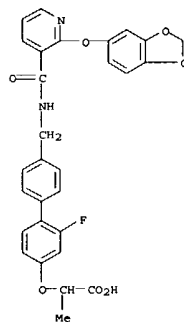L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN   (Continued)

RN   445492-75-1 CAPLUS
CN   Acetic acid, [[4'-[[[[2-(1,3-benzodioxol-5-yloxy)-3-
     pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
     INDEX NAME)
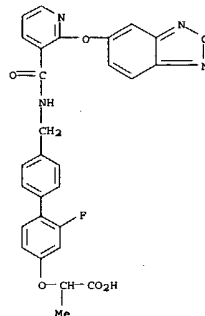
RN   445492-76-2 CAPLUS
CN   Propanoic acid, 2-[[4'-[[[[2-(1,3-benzodioxol-5-yloxy)-3-
     pyridinyl]carbonyl]amino]methyl]-2-fluoro[1,1'-biphenyl]-4-yl]oxy]- (9CI)
     (CA INDEX NAME)

L3   ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN   (Continued)

RN   445492-93-3 CAPLUS
CN   Propanoic acid, 2-[[4'-[[[[2-(2,1,3-benzoxadiazol-5-yloxy)-3-
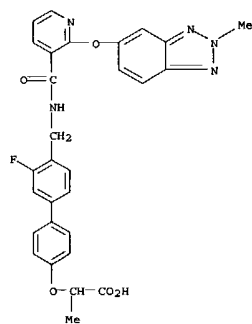   pyridinyl]carbonyl]amino]methyl]-2-fluoro[1,1'-biphenyl]-4-yl]oxy]- (9CI)
     (CA INDEX NAME)

RN   445492-94-4 CAPLUS
CN   Propanoic acid, 2-[[3'-fluoro-4'-[[[[2-[(2-methyl-2H-benzotriazol-5-
     yl)oxy]-3-pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]-
     (9CI)

RE.CNT 8   THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

3/24/2004

```
=> file uspatall
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                     ENTRY       SESSION
FULL ESTIMATED COST                                   6.51       162.14

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                     ENTRY       SESSION
CA SUBSCRIBER PRICE                                  -0.69        -0.69

FILE 'USPATFULL' ENTERED AT 16:31:30 ON 24 MAR 2004
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FILE 'USPAT2' ENTERED AT 16:31:30 ON 24 MAR 2004
CA INDEXING COPYRIGHT (C) 2004 AMERICAN CHEMICAL SOCIETY (ACS)

=> d his

       (FILE 'HOME' ENTERED AT 16:28:20 ON 24 MAR 2004)

       FILE 'REGISTRY' ENTERED AT 16:28:28 ON 24 MAR 2004
L1               STRUCTURE UPLOADED
L2          6 S L1 FUL

       FILE 'CAPLUS' ENTERED AT 16:29:10 ON 24 MAR 2004
L3            1 S L2

       FILE 'USPATFULL, USPAT2' ENTERED AT 16:31:30 ON 24 MAR 2004

=> s l2
L4          2 L2

=> d abs bib fhitstr 1-2
```

L4   ANSWER 1 OF 2 USPATFULL on STN
AB   Compounds useful as inhibitors of PDE4 in the treatment of diseases
      regulated by the activation and degranulation of eosinophils,
especially
      asthma, chronic bronchitis, and chronic obstructuive pulmonary disease,
      of the formula: ##STR1##

      where j is 0 or 1 provided that when j is 0, n must be 2; k is 0 or 1;
m
      is 0, 1, or 2; n is 1 or 2; W.sup.1 is --O--; or --S(.dbd.O).sub.t--,
      where t is 0, 1, or 2; or --N(R.sup.3)--; W.sup.2 is
      --O--CR.sup.AR.sup.B-- or is absent; Y is .dbd.C(R.sup.1.sub.a)-- or
      --[N(O).sub.k]-- where k is 0 or 1; R.sup.A and R.sup.B are --H; --F;
      --CF.sub.3; --(C.sub.1-C.sub.4) alkyl; --(C.sub.3-C.sub.7) cycloalkyl;
      phenyl; or benzyl substituted with 0 to 3 substituents R.sup.10; or
      R.sup.A and R.sup.B are taken together, but only in the case where m is
      1, to form a spiro moiety; R.sup.C and R.sup.D have the same meaning as
      R.sup.A and R.sup.B except that one of them must be --H, R.sup.1 and
      R.sup.2 are --H; --F; --Cl; --CN; --NO.sub.2; --(C.sub.1-C.sub.4)
alkyl;
      --(C.sub.2-C.sub.4) alkynyl; fluorinated --(C.sub.1-C.sub.3) alkyl;
      --OR.sup.16; and --C(.dbd.O)NR.sup.22.sub.aR.sup.22.sub.b; R.sup.3 is
      --H; --(C.sub.1-C.sub.3) alkyl; phenyl; benzyl; or --OR.sup.16;
R.sup.4,
      R.sup.5 and R.sup.6 in addition to other meanings may be taken together
      to form, e.g.,   ##STR2##

      Q.sup.1 is a saturated or unsaturated carbon ring system that is a 3-
to
      7-membered monocyclic, or that is a 7- to 12-membered, fused
polycyclic;
      provided that Q.sup.1 is not a discontinuous or restricted biaryl
moiety
      as defined under Q.sup.2; where optionally one carbon atom may be
      replaced by a heteroatom selected from N, O, and S; where optionally a
      second carbon atom thereof, and further optionally a third carbon atom
      thereof may be replaced by N; Q.sup.2 is a discontinuous or restricted
      biaryl moiety consisting of a saturated or unsaturated carbon ring
      system that is a 3- to 7-membered monocyclic, or that is a 7- to
      12-membered, fused polycyclic; where optionally one carbon atom may be
      replaced by a heteroatom selected from N, O, and S; where optionally a
      second carbon atom thereof, and further optionally a third carbon atom
      thereof may be replaced by N; Z is selected from: ##STR3##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN   2002:338241 USPATFULL
TI   Nicotinamide biaryl derivatives useful as inhibitors of PDE4 isozymes
IN   Chambers, Robert J., Mystic, CT, UNITED STATES
      Marfat, Anthony, Mystic, CT, UNITED STATES
      Magee, Thomas V., Mystic, CT, UNITED STATES
PA   Pfizer Inc. (U.S. corporation)
PI   US 2002193612   A1 20021219
      US 6649633   B2 20031118
AI   US 2002-62813   A1 20020131 (10)
PRAI US 2001-265492P   20010131 (60)
DT   Utility

L4   ANSWER 1 OF 2 USPATFULL on STN   (Continued)
FS   APPLICATION
LREP PFIZER INC, 150 EAST 42ND STREET, 5TH FLOOR - STOP 49, NEW YORK, NY,
      10017-5612
CLMN Number of Claims: 18
ECL   Exemplary Claim: 1
DRWN No Drawings
LN.CNT 7001
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT   445492-73-9P
        (preparation of biaryl nicotinamides as inhibitors of PDE4 isoenzymes)
RN   445492-73-9 USPATFULL
CN   Acetic acid, [[4'-[[[[2-(2,1,3-benzothiadiazol-5-yloxy)-3-
      pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
      INDEX NAME)

L4   ANSWER 2 OF 2 USPAT2 on STN
AB   This application is directed to compounds useful as inhibitors at PDE4
      in the treatment of diseases regulated by the activation and
      degranulation of eosinophils, especially asthma, chronic bronchitis and
      chronic obstructuive pulmonary disease, of the formula: ##STR1##

      where j is 0 or 1 provided that when j is 0, n must be 2; k is 0 or 1;
m
      is 0, 1, or 2; n is 1 or 2; W.sup.1 is --O--; or --S(.dbd.O).sub.t--,
      where t is 0, 1, or 2; Y is --C(R.sup.1.sub.a)--; Q.sup.1 is phenyl or
      substituted phenyl; Q.sup.2 is biphenyl or substituted biphenyl; and
the
      remaining variables are defined as set forth in the specification. This
      application is also directed to pharmaceutical compositions comprising
      those compounds and to methods of treating diseases regulated by the
      activation and degranulation of eosinophils, in particular asthma,
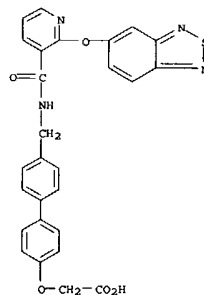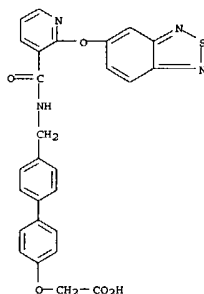   chronic bronchitis and chronic obstructive pulmonary disease.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AN   2002:338241 USPAT2
TI   Nicotinamide biaryl derivatives useful as inhibitors of PDE4 isozymes
IN   Chambers, Robert J., Mystic, CT, United States
      Marfat, Anthony, Mystic, CT, United States
      Magee, Thomas V., Mystic, CT, United States
PA   Pfizer Inc, New York, NY, United States (U.S. corporation)
PI   US 6649633   B2 20031118
AI   US 2002-62813   20020131 (10)
PRAI US 2001-265492P   20010131 (60)
DT   Utility
FS   GRANTED
EXNAM Primary Examiner: Desai, Rita
LREP Richardson, Peter C., Benson, Gregg C., Ronau, Robert T.
CLMN Number of Claims: 9
ECL   Exemplary Claim: 1
DRWN 0 Drawing Figure(s); 0 Drawing Page(s)
LN.CNT 6480
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT   445492-73-9P
        (preparation of biaryl nicotinamides as inhibitors of PDE4 isoenzymes)
RN   445492-73-9 USPATFULL
CN   Acetic acid, [[4'-[[[[2-(2,1,3-benzothiadiazol-5-yloxy)-3-
      pyridinyl]carbonyl]amino]methyl][1,1'-biphenyl]-4-yl]oxy]- (9CI) (CA
      INDEX NAME)

L4   ANSWER 2 OF 2 USPAT2 on STN   (Continued)

3/24/2004

=> logoff y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	13.62	175.76

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.69

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Connecting via Winsock to STN

Welcome to STN International!   Enter x:x

LOGINID:ssspta1612rxd

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	SEP 09	CA/CAplus records now contain indexing from 1907 to the present
NEWS	4	DEC 08	INPADOC: Legal Status data reloaded
NEWS	5	SEP 29	DISSABS now available on STN
NEWS	6	OCT 10	PCTFULL: Two new display fields added
NEWS	7	OCT 21	BIOSIS file reloaded and enhanced
NEWS	8	OCT 28	BIOSIS file segment of TOXCENTER reloaded and enhanced
NEWS	9	NOV 24	MSDS-CCOHS file reloaded
NEWS	10	DEC 08	CABA reloaded with left truncation
NEWS	11	DEC 08	IMS file names changed
NEWS	12	DEC 09	Experimental property data collected by CAS now available in REGISTRY
NEWS	13	DEC 09	STN Entry Date available for display in REGISTRY and CA/CAplus
NEWS	14	DEC 17	DGENE: Two new display fields added
NEWS	15	DEC 18	BIOTECHNO no longer updated
NEWS	16	DEC 19	CROPU no longer updated; subscriber discount no longer available
NEWS	17	DEC 22	Additional INPI reactions and pre-1907 documents added to CAS databases
NEWS	18	DEC 22	IFIPAT/IFIUDB/IFICDB reloaded with new data and search fields
NEWS	19	DEC 22	ABI-INFORM now available on STN
NEWS	20	JAN 27	Source of Registration (SR) information in REGISTRY updated and searchable
NEWS	21	JAN 27	A new search aid, the Company Name Thesaurus, available in CA/CAplus
NEWS	22	FEB 05	German (DE) application and patent publication number format changes

10613988

NEWS 23 MAR 03   MEDLINE and LMEDLINE reloaded
NEWS 24 MAR 03   MEDLINE file segment of TOXCENTER reloaded
NEWS 25 MAR 03   FRANCEPAT now available on STN

NEWS EXPRESS   MARCH 5 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
                 MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
                 AND CURRENT DISCOVER FILE IS DATED 3 MARCH 2004
NEWS HOURS   STN Operating Hours Plus Help Desk Availability
NEWS INTER   General Internet Information
NEWS LOGIN   Welcome Banner and News Items
NEWS PHONE   Direct Dial and Telecommunication Network Access to STN
NEWS WWW   CAS World Wide Web Site (general information)

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   * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:34:59 ON 24 MAR 2004

=> file registry
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   0.21   0.21

FILE 'REGISTRY' ENTERED AT 16:35:09 ON 24 MAR 2004
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provided by InfoChem.

STRUCTURE FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0
DICTIONARY FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.
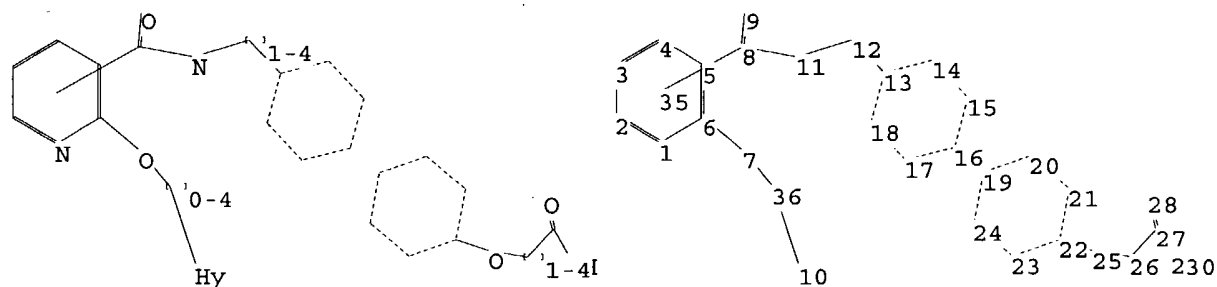
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10613988.str

```
chain nodes :
7   8   9   10   11   12   25   26   27   28   29   30   36
ring nodes :
1   2   3   4   5   6   13   14   15   16   17   18   19   20   21   22   23   24
chain bonds :
6-7   7-36   8-11   8-9   10-36   11-12   12-13   22-25   25-26   26-27   27-28   27-29   29-30

ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   13-14   13-18   14-15   15-16   16-17   17-18   19-24
19-20   20-21   21-22   22-23   23-24
exact/norm bonds :
6-7   7-36   8-11   8-9   10-36   11-12   13-14   13-18   14-15   15-16   16-17   17-18   19-24
 19-20   20-21   21-22   22-23   22-25   23-24   25-26
exact bonds :
12-13   26-27   29-30
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6   27-28   27-29


Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   8:CLASS   9:CLASS   10:Atom
11:CLASS   12:CLASS   13:Atom   14:Atom   15:Atom   16:Atom   17:Atom   18:Atom   19:Atom
20:Atom   21:Atom   22:Atom   23:Atom   24:Atom   25:CLASS   26:CLASS   27:CLASS   28:CLASS
 29:CLASS   30:CLASS   35:CLASS   36:CLASS
```

```
L1        STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1                STR
```
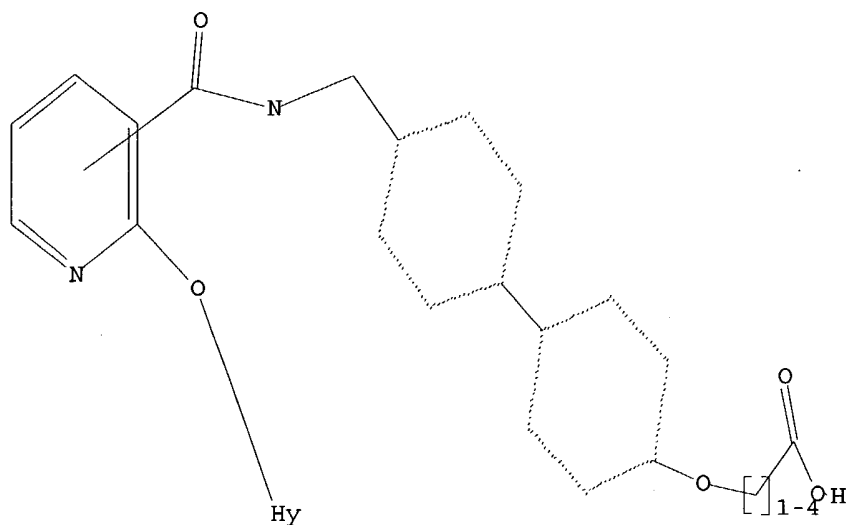
10613988

3/24/2004

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 16:35:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   0 TO ITERATE

100.0% PROCESSED   0 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                         BATCH   **COMPLETE**
PROJECTED ITERATIONS: 0 TO   0
PROJECTED ANSWERS: 0 TO   0

L2   0 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 16:35:46 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   27 TO ITERATE

100.0% PROCESSED   27 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L3   0 SEA SSS FUL L1

=> file registry
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                ENTRY   SESSION
FULL ESTIMATED COST   156.26   156.47

FILE 'REGISTRY' ENTERED AT 16:37:06 ON 24 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

10613988

3/24/2004

STRUCTURE FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0
DICTIONARY FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004
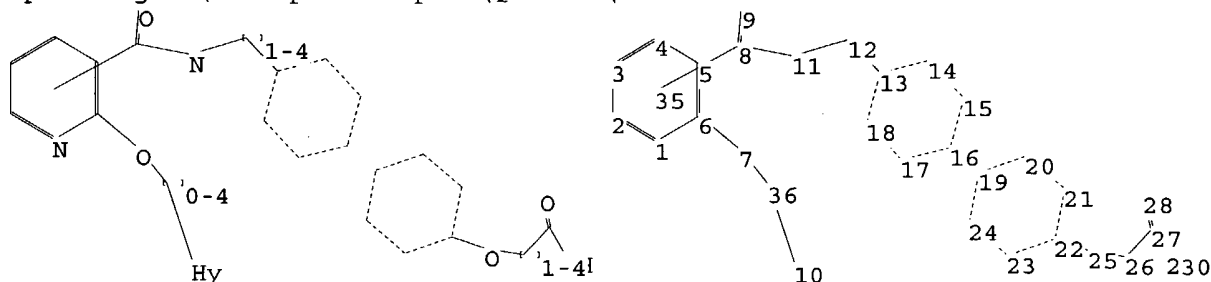
   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10613988.str

chain nodes :
7   8   9   10   11   12   25   26   27   28   29   30   36
ring nodes :
1   2   3   4   5   6   13   14   15   16   17   18   19   20   21   22   23   24
chain bonds :
6-7   7-36   8-11   8-9   10-36   11-12   12-13   22-25   25-26   26-27   27-28   27-29   29-30

ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   13-14   13-18   14-15   15-16   16-17   17-18   19-24
19-20   20-21   21-22   22-23   23-24
exact/norm bonds :
6-7   7-36   8-11   8-9   10-36   11-12   13-14   13-18   14-15   15-16   16-17   17-18   19-24
 19-20   20-21   21-22   22-23   22-25   23-24   25-26
exact bonds :
12-13   26-27   29-30
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6   27-28   27-29

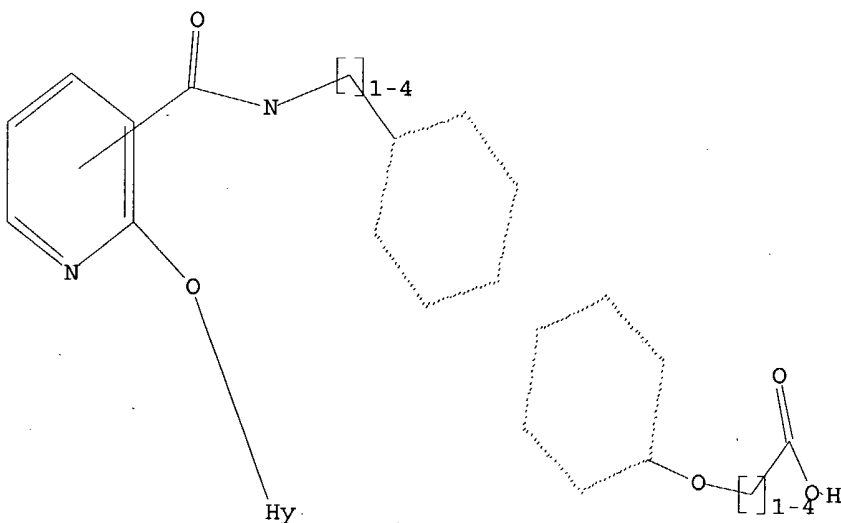Match level :

10613988

```
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:CLASS  8:CLASS  9:CLASS  10:Atom
11:CLASS  12:CLASS  13:Atom  14:Atom  15:Atom  16:Atom  17:Atom  18:Atom  19:Atom
20:Atom  21:Atom  22:Atom  23:Atom  24:Atom  25:CLASS  26:CLASS  27:CLASS  28:CLASS
  29:CLASS  30:CLASS  35:CLASS  36:CLASS
```

L4   STRUCTURE UPLOADED

```
=> d l4
L4 HAS NO ANSWERS
L4                 STR
```


Structure attributes must be viewed using STN Express query preparation.

```
=>  s l4
SAMPLE SEARCH INITIATED 16:37:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      21 TO ITERATE

100.0% PROCESSED      21 ITERATIONS                          0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:         146 TO        694
PROJECTED ANSWERS:              0 TO          0

L5             0 SEA SSS SAM L4

=> s l4 ful
FULL SEARCH INITIATED 16:37:53 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    408 TO ITERATE
```

3/24/2004

100.0% PROCESSED   408 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

L6   0 SEA SSS FUL L4

=> file registry
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                   ENTRY   SESSION
FULL ESTIMATED COST   156.26   312.73

FILE 'REGISTRY' ENTERED AT 16:39:02 ON 24 MAR 2004
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0
DICTIONARY FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0

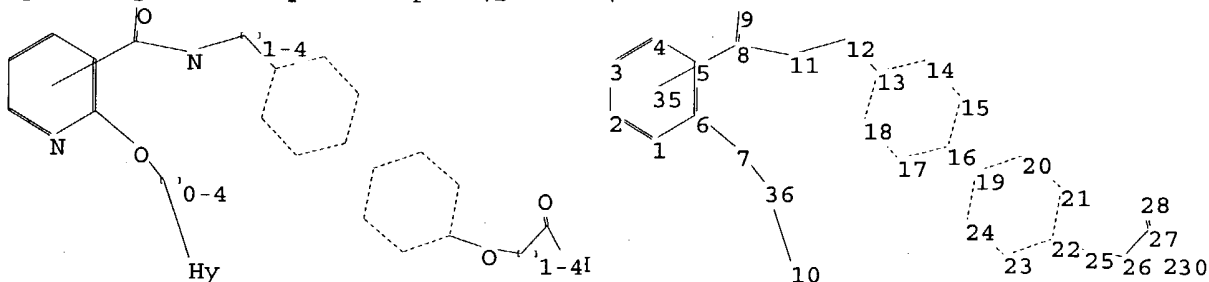TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased.   See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10613988.str

chain nodes :
7 8 9 10 11 12 25 26 27 28 29 30 36
ring nodes :
1 2 3 4 5 6 13 14 15 16 17 18 19 20 21 22 23 24
chain bonds :
6-7 7-36 8-11 8-9 10-36 11-12 12-13 22-25 25-26 26-27 27-28 27-29 29-30

10613988

ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   13-14   13-18   14-15   15-16   16-17   17-18   19-24
19-20   20-21   21-22   22-23   23-24
exact/norm bonds :
6-7   7-36   8-11   8-9   10-36   11-12   13-14   13-18   14-15   15-16   16-17   17-18   19-24
 19-20   20-21   21-22   22-23   22-25   23-24   25-26
exact bonds :
12-13   26-27   29-30
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6   27-28   27-29
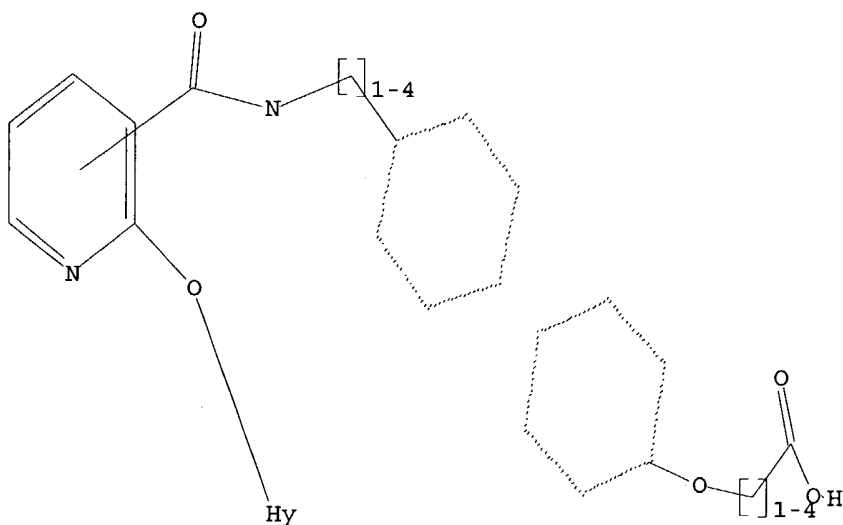

Match level :
1:Atom   2:Atom   3:Atom   4:Atom   5:Atom   6:Atom   7:CLASS   8:CLASS   9:CLASS   10:Atom
11:CLASS   12:CLASS   13:Atom   14:Atom   15:Atom   16:Atom   17:Atom   18:Atom   19:Atom
20:Atom   21:Atom   22:Atom   23:Atom   24:Atom   25:CLASS   26:CLASS   27:CLASS   28:CLASS
 29:CLASS   30:CLASS   35:CLASS   36:CLASS

L7   STRUCTURE UPLOADED

=> d l7
L7 HAS NO ANSWERS
L7   STR

Structure attributes must be viewed using STN Express query preparation.

=> s l7
SAMPLE SEARCH INITIATED 16:39:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   21 TO ITERATE

100.0% PROCESSED   21 ITERATIONS   0 ANSWERS

10613988

3/24/2004

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE   **COMPLETE**
                          BATCH   **COMPLETE**
PROJECTED ITERATIONS: 146 TO   694
PROJECTED ANSWERS: 0 TO   0

L8   0 SEA SSS SAM L7

=> s 17 ful
FULL SEARCH INITIATED 16:39:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   408 TO ITERATE

100.0% PROCESSED   408 ITERATIONS   7 ANSWERS
SEARCH TIME: 00.00.01

L9   7 SEA SSS FUL L7

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   155.42   468.15

FILE 'CAPLUS' ENTERED AT 16:39:50 ON 24 MAR 2004
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FILE COVERS 1907 - 24 Mar 2004 VOL 140 ISS 13
FILE LAST UPDATED: 23 Mar 2004   (20040323/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s 19
L10   1 L9

=> file registry
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                              ENTRY   SESSION
FULL ESTIMATED COST   0.88   469.03

FILE 'REGISTRY' ENTERED AT 16:41:08 ON 24 MAR 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

10613988

STRUCTURE FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0
DICTIONARY FILE UPDATES: 23 MAR 2004   HIGHEST RN 666817-09-0

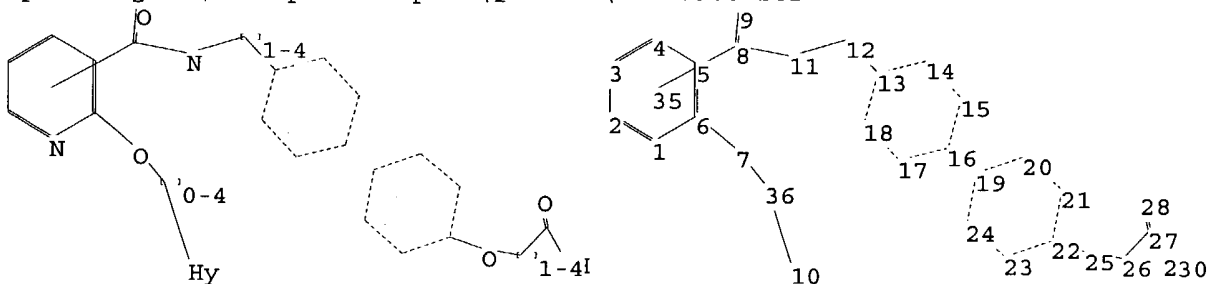TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

   Please note that search-term pricing does apply when
   conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Stnexp4 corrupted\QUERIES\10613988.str

chain nodes :
7   8   9   10   11   12   25   26   27   28   29   30   36
ring nodes :
1   2   3   4   5   6   13   14   15   16   17   18   19   20   21   22   23   24
chain bonds :
6-7   7-36   8-11   8-9   10-36   11-12   12-13   22-25   25-26   26-27   27-28   27-29   29-30

ring bonds :
1-2   1-6   2-3   3-4   4-5   5-6   13-14   13-18   14-15   15-16   16-17   17-18   19-24
19-20   20-21   21-22   22-23   23-24
exact/norm bonds :
6-7   7-36   8-11   8-9   10-36   11-12   13-14   13-18   14-15   15-16   16-17   17-18   19-24
 19-20   20-21   21-22   22-23   22-25   23-24   25-26
exact bonds :
12-13   26-27   29-30
normalized bonds :
1-2   1-6   2-3   3-4   4-5   5-6   27-28   27-29
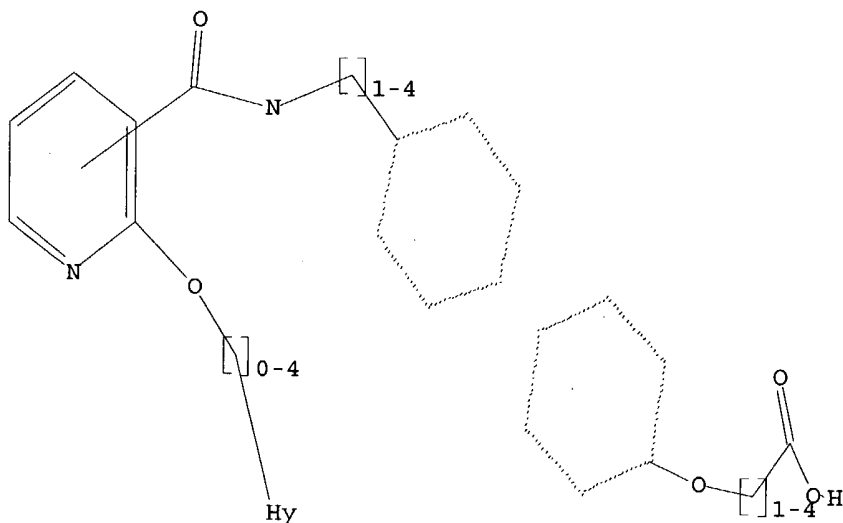
Match level :

10613988

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:Atom
11:CLASS 12:CLASS 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:CLASS 26:CLASS 27:CLASS 28:CLASS
 29:CLASS 30:CLASS 35:CLASS 36:CLASS

L11   STRUCTURE UPLOADED

=> d l11
L11 HAS NO ANSWERS
L11   . STR

Structure attributes must be viewed using STN Express query preparation.

=> s l11
SAMPLE SEARCH INITIATED 16:41:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -   24 TO ITERATE

100.0% PROCESSED   24 ITERATIONS   0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS: 187 TO   773
PROJECTED ANSWERS: 0 TO   0

L12   0 SEA SSS SAM L11

=> s l11 ful
FULL SEARCH INITIATED 16:41:41 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   453 TO ITERATE

3/24/2004

100.0% PROCESSED   453 ITERATIONS   7 ANSWERS
SEARCH TIME: 00.00.01

L13   7 SEA SSS FUL L11

=> logoff y
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                            ENTRY   SESSION
FULL ESTIMATED COST   155.42   624.45

STN INTERNATIONAL LOGOFF AT 16:41:47 ON 24 MAR 2004